

## 5 The central limit theorem — Part 2 — Answers

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### Answers

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Work through these after you have tried the questions yourself.

**2.1** for a large sample, its distribution is approximately normal, centered on the population mean.

**2.2** the population does not have to be normal – it works even for skewed data.

**2.3** it becomes narrower and closer to a normal (bell) shape.

**2.4** because the sample mean is approximately normal, we can use the bell curve to judge how confident we are in estimates (making inference possible).

**2.5** the sample mean (not the individual data values).